

Name: \_\_\_\_\_

**p1105: Factoring when  $a = \text{prime}$  (v34)**

1. Factor the expression  $5x^2 - 31x - 72$

$$(5x + 9)(x - 8)$$

2. Factor the expression  $11x^2 + 47x + 12$

$$(11x + 3)(x + 4)$$

3. Factor the expression  $7x^2 - 46x - 21$

$$(7x + 3)(x - 7)$$

4. Factor the expression  $2x^2 + 19x + 45$

$$(2x + 9)(x + 5)$$

5. Factor the expression  $7x^2 - 62x + 48$

$$(7x - 6)(x - 8)$$

6. Factor the expression  $3x^2 + 4x - 15$

$$(3x - 5)(x + 3)$$

7. Factor the expression  $5x^2 + 27x + 10$

$$(5x + 2)(x + 5)$$

8. Factor the expression  $7x^2 + 43x + 40$

$$(7x + 8)(x + 5)$$

9. Factor the expression  $11x^2 + 71x + 30$

$$(11x + 5)(x + 6)$$

10. Factor the expression  $2x^2 - 3x - 14$

$$(2x - 7)(x + 2)$$